



January 16, 2006

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. THOMAS KOSEL

SITE: 76 STATION 5105
1950 GUERNEVILLE ROAD
SANTA ROSA, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
OCTOBER THROUGH DECEMBER 2005

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station 5105, located at 1950 Guerneville Road, Santa Rosa, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

A handwritten signature in black ink that reads "Anju Farfan". The signature is fluid and cursive, with "Anju" on top and "Farfan" below it.

Anju Farfan
QMS Operations Manager

CC: Mr. Jan Wagoner, Delta Environmental, Inc. (2 copies)

Enclosures:
20-0400/5105R04.QMS





**QUARTERLY MONITORING REPORT
OCTOBER THROUGH DECEMBER 2005**

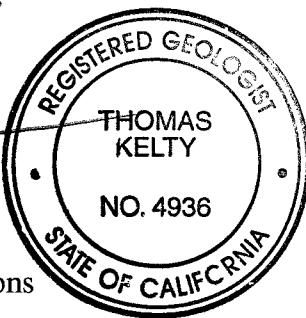
76 Station 5105
1950 Guerneville Road
Santa Rosa, California

Prepared For:

Mr. Thomas Kosel
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:


Senior Project Geologist, Irvine Operations
January 11, 2006



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Summary of Gauging and Sampling Activities

October 2005 through December 2005

76 Station 5105

1950 Guerneville Road

Santa Rosa, CA

Project Coordinator: **Thomas Kosel**
Telephone: **916-558-7666**

Water Sampling Contractor: **TRC**
Compiled by: **Christina Carrillo**

Date(s) of Gauging/Sampling Event: **12/01/05**

Sample Points

Groundwater wells: **9** onsite, **0** offsite Wells gauged: **9** Wells sampled: **9**

Purging method: **Diaphragm pump**

Purge water disposal: **Onyx/Rodeo Unit 100**

Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

Wells with LPH: **0** Maximum thickness (feet): **n/a**

LPH removal frequency: **n/a** Method: **n/a**

Treatment or disposal of water/LPH: **n/a**

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **10.78 feet** Maximum: **15.02 feet**

Average groundwater elevation (relative to available local datum): **109.73 feet**

Average change in groundwater elevation since previous event: **1.66 feet**

Interpreted groundwater gradient and flow direction:

Current event: **0.02 ft/ft, southwest**

Previous event: **0.01 ft/ft, southwest (09/26/05)**

Selected Laboratory Results

Wells with detected **Benzene**: **0** Wells above MCL (1.0 µg/l): **n/a**
Maximum reported benzene concentration: **n/a**

Wells with **TPH-G**: **0**

Wells with **MTBE**: **6** Maximum: **1,200 µg/l (MW-7)**

Notes:

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

--	= not analyzed, measured, or collected
LPH	= liquid-phase hydrocarbons
Trace	= less than 0.01 foot of LPH in well
$\mu\text{g/l}$	= micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	= milligrams per liter (approx. equivalent to parts per million, ppm)
ND <	= not detected at or above laboratory detection limit
TOC	= top of casing (surveyed reference elevation)

ANALYTES

BTEX	= benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	= di-isopropyl ether
ETBE	= ethyl tertiary butyl ether
MTBE	= methyl tertiary butyl ether
PCB	= polychlorinated biphenyls
PCE	= tetrachloroethene
TBA	= tertiary butyl alcohol
TCA	= trichloroethane
TCE	= trichloroethene
TPH-G	= total petroleum hydrocarbons with gasoline distinction
TPH-D	= total petroleum hydrocarbons with diesel distinction
TPPH	= total purgeable petroleum hydrocarbons
TRPH	= total recoverable petroleum hydrocarbons
TAME	= tertiary amyl methyl ether
1,1-DCA	= 1,1-dichloroethane
1,2-DCA	= 1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	= 1,1-dichloroethene
1,2-DCE	= 1,2-dichloroethene (cis- and trans-)

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation – Measured Depth to Water + (D_p x LPH Thickness), where D_p is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to resurvey.

REFERENCE

TRC began groundwater monitoring and sampling 76 Station 5105 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1, 2005
76 Station 5105

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground- water Elevation	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE	Comments
(feet)	(feet)	(feet)	(feet)	(feet)	($\mu\text{g/l}$)	MTBE 8021B	8260B				
MW-1 12/01/05	(Screen Interval in feet: 12.0-30.0) 122.73	13.65	0.00	109.08	1.67	ND<1000	ND<10	ND<10	ND<20	--	1000
MW-3 12/01/05	(Screen Interval in feet: 9.0-25.0) 121.75	11.29	0.00	110.46	1.83	ND<50	ND<0.50	ND<0.50	ND<1.0	--	1.1
MW-6 12/01/05	(Screen Interval in feet: 11.04-25.24) 124.02	15.02	0.00	109.00	1.01	ND<50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50
MW-7 12/01/05	(Screen Interval in feet: 12.04-25.33) 121.46	13.80	0.00	107.66	-1.05	ND<1000	ND<10	ND<10	ND<20	--	1200
MW-8 12/01/05	(Screen Interval in feet: 12.36-25.20) 122.16	13.64	0.00	108.52	1.85	ND<50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50
MW-9 12/01/05	(Screen Interval in feet: 12.72-25.27) 123.59	14.14	0.00	109.45	1.75	ND<50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50
MW-10 12/01/05	(Screen Interval in feet: 11.98-24.10) 123.55	12.65	0.00	110.90	2.68	ND<500	ND<5.0	ND<5.0	ND<10	--	760
MW-11 12/01/05	(Screen Interval in feet: 8.12-25.14) 123.14	12.19	0.00	110.95	2.72	ND<50	ND<0.50	ND<0.50	ND<1.0	--	81
MW-12 12/01/05	(Screen Interval in feet: 8.08-24.90) 122.34	10.78	0.00	111.56	2.46	ND<50	ND<0.50	ND<0.50	ND<1.0	--	6.2

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1991 Through December 2005
76 Station 5105

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Groundwater Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1 (Screen Interval in feet: 12.0-30.0)													
05/25/91	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
10/07/91	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
01/10/92	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
04/08/92	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
07/02/92	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
10/06/92	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
01/06/93	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
04/01/93	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
07/02/93	123.02	15.70	0.00	107.32	--	ND	ND	ND	ND	ND	ND	ND	--
10/04/93	122.71	16.71	0.00	106.00	-1.32	ND	ND	ND	ND	ND	ND	ND	--
01/27/94	122.73	13.39	0.00	109.34	3.34	--	--	--	--	--	--	--	--
04/28/94	122.73	13.87	0.00	108.86	-0.48	130	ND	ND	ND	ND	ND	ND	--
10/19/94	122.73	16.65	0.00	106.08	-2.78	560	ND	ND	ND	ND	ND	ND	--
04/17/95	122.73	12.50	0.00	110.23	4.15	ND	ND	ND	ND	ND	ND	ND	--
10/12/95	122.73	16.84	0.00	105.89	-4.34	ND	ND	ND	ND	ND	ND	ND	--
04/08/96	122.73	11.97	0.00	110.76	4.87	ND	ND	ND	ND	ND	ND	ND	--
10/29/96	122.73	15.16	0.00	107.57	-3.19	--	--	--	--	--	--	--	--
04/25/97	122.73	12.82	0.00	109.91	2.34	--	--	--	--	--	--	--	270
04/13/98	122.73	11.65	0.00	111.08	1.17	--	--	--	--	--	--	--	5.8
08/31/98	122.73	14.68	0.00	108.05	-3.03	ND	ND	ND	ND	ND	ND	ND	448
04/05/99	122.73	11.59	0.00	111.14	3.09	ND	ND	ND	ND	ND	ND	ND	360
03/31/00	122.73	12.30	0.00	110.43	-0.71	ND	ND	ND	ND	ND	ND	ND	540
04/06/01	122.73	12.44	0.00	110.29	-0.14	ND	ND	ND	ND	ND	ND	ND	880
04/22/02	122.73	11.98	0.00	110.75	0.46	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	19
													26

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1991 Through December 2005
76 Station 5105

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1 continued													
04/11/03	122.73	12.91	0.00	109.82	-0.93	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.7	7.2	
05/12/04	122.73	13.35	0.00	109.38	-0.44	750	ND<5.0	ND<5.0	ND<5.0	ND<5.0	790	1000	
06/07/05	122.73	12.91	0.00	109.82	0.44	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	660	570	
09/26/05	122.73	15.32	0.00	107.41	-2.41	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	500	
12/01/05	122.73	13.65	0.00	109.08	1.67	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1000	
MW-2 (Screen Interval in feet: DNA)													
05/25/91	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
10/07/91	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
01/10/92	--	--	--	--	--	--	100	ND	ND	ND	ND	ND	--
04/08/92	--	--	--	--	--	--	140	ND	ND	ND	ND	ND	--
07/02/92	--	--	--	--	--	--	120	ND	ND	ND	ND	ND	--
10/06/92	--	--	--	--	--	--	59	ND	ND	ND	ND	ND	--
01/06/93	--	--	--	--	--	--	120	ND	ND	ND	ND	ND	--
04/01/93	--	--	--	--	--	--	150	ND	ND	ND	ND	ND	--
07/02/93	121.89	13.76	0.00	108.13	--	82	ND	ND	ND	ND	ND	ND	--
10/04/93	121.47	14.75	0.00	106.72	-1.41	ND	ND	ND	ND	ND	ND	ND	--
01/27/94	121.49	12.53	0.00	108.96	2.24	--	--	--	--	--	--	--	--
04/28/94	121.49	12.54	0.00	108.95	-0.01	120	ND	ND	ND	ND	0.62	290	--
10/19/94	121.49	15.10	0.00	106.39	-2.56	170	0.79	ND	0.53	ND	98	--	--
04/17/95	121.49	10.92	0.00	110.57	4.18	ND	ND	ND	ND	ND	56	--	--
MW-3 (Screen Interval in feet: 9.0-25.0)													
05/25/91	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
10/07/91	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--
01/10/92	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	--

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1991 Through December 2005

76 Station 5105

Date Sampled	TOC Elevation	Depth to Water (feet)	IPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-3 continued													
04/08/92	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
07/02/92	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
10/06/92	--	--	--	--	--	ND	1.4	ND	ND	ND	--	--	
01/06/93	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
04/01/93	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
07/02/93	121.98	11.98	0.00	110.00	--	ND	ND	ND	ND	ND	--	--	
10/04/93	121.73	13.01	0.00	108.72	-1.28	ND	ND	ND	ND	ND	--	--	
01/27/94	121.75	10.86	0.00	110.89	2.17	--	--	--	--	--	--	--	
04/28/94	121.75	10.56	0.00	111.19	0.30	ND	ND	ND	ND	ND	--	--	
10/19/94	121.75	14.73	0.00	107.02	-4.17	--	--	--	--	--	--	--	
04/17/95	121.75	8.40	0.00	113.35	6.33	ND	ND	ND	ND	ND	--	--	
10/12/95	121.75	14.61	0.00	107.14	-6.21	--	--	--	--	--	--	--	
04/08/96	121.75	8.38	0.00	113.37	6.23	ND	ND	ND	ND	ND	--	--	
10/29/96	121.75	12.92	0.00	108.83	-4.54	--	--	--	--	--	--	--	
04/25/97	121.75	9.64	0.00	112.11	3.28	--	--	--	--	--	ND	--	
04/13/98	121.75	8.38	0.00	113.37	1.26	--	--	--	--	--	14	--	
08/31/98	121.75	11.96	0.00	109.79	-3.58	ND	ND	ND	ND	ND	2.73	2.66	
04/05/99	121.75	8.38	0.00	113.37	3.58	ND	ND	ND	ND	ND	7.6	5.2	
03/31/00	121.75	9.00	0.00	112.75	-0.62	ND	ND	ND	ND	ND	8.9	8.5	
04/06/01	121.75	9.23	0.00	112.52	-0.23	ND	ND	ND	ND	ND	7.75	7.8	
04/22/02	121.75	8.74	0.00	113.01	0.49	ND<50	ND<50	ND<50	ND<50	ND<50	5.1	7.6	
04/11/03	121.75	9.61	0.00	112.14	-0.87	ND<50	ND<50	ND<50	ND<50	ND<50	4.0	5.1	
05/12/04	121.75	10.09	0.00	111.66	-0.48	ND<50	ND<50	ND<50	ND<50	ND<50	3.9	3.9	
06/07/05	121.75	9.39	0.00	112.36	0.70	ND<50	ND<50	ND<50	ND<50	ND<50	2.8	2.8	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1991 Through December 2005
76 Station 5105

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-3 continued													
09/26/05	121.75	13.12	0.00	108.63	-3.73	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	1.5
12/01/05	121.75	11.29	0.00	110.46	1.83	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	--	1.1
MW-4 (Screen Interval in feet: DNA)													
04/08/92	--	--	--	--	--	110	ND	ND	ND	ND	--	--	--
07/02/92	--	--	--	--	--	240	ND	ND	ND	ND	930	--	--
10/06/92	--	--	--	--	--	130	ND	ND	ND	ND	320	--	--
01/06/93	--	--	--	--	--	120	ND	ND	ND	ND	400	--	--
04/01/93	--	--	--	--	--	210	ND	ND	ND	ND	2.8	360	--
07/02/93	121.77	13.52	0.00	108.25	--	210	ND	ND	ND	ND	ND	350	--
10/04/93	121.49	14.51	0.00	106.98	-1.27	ND	ND	ND	ND	ND	ND	25	--
01/27/94	121.51	12.03	0.00	109.48	2.50	--	--	--	--	--	--	--	--
04/28/94	121.51	10.92	0.00	110.59	1.11	78	ND	ND	ND	ND	ND	180	--
10/19/94	121.51	13.78	0.00	107.73	-2.86	ND	ND	ND	ND	ND	ND	260	--
04/17/95	121.51	12.15	0.00	109.36	1.63	ND	ND	ND	ND	ND	ND	90	--
10/12/95	121.51	14.00	0.00	107.51	-1.85	ND	ND	ND	ND	ND	ND	29	--
04/08/96	121.51	10.57	0.00	110.94	3.43	ND	ND	ND	ND	ND	ND	--	--
MW-5 (Screen Interval in feet: DNA)													
01/27/94	122.07	13.73	0.00	108.34	--	ND	ND	ND	ND	ND	--	--	--
04/28/94	122.07	14.25	0.00	107.82	-0.52	ND	ND	ND	ND	ND	--	--	--
10/19/94	122.07	16.15	0.00	105.92	-1.90	ND	ND	ND	ND	ND	--	--	--
04/17/95	122.07	13.21	0.00	108.86	2.94	ND	ND	ND	ND	ND	--	--	--
10/12/95	122.07	16.38	0.00	105.69	-3.17	ND	ND	ND	ND	ND	--	--	--
04/08/96	122.07	--	--	--	--	--	--	--	--	--	--	--	--
MW-6 (Screen Interval in feet: DNA)													
04/28/94	122.07	13.73	0.00	108.34	--	ND	ND	ND	ND	ND	--	--	--
10/19/94	122.07	16.15	0.00	105.92	-1.90	ND	ND	ND	ND	ND	--	--	--
04/17/95	122.07	13.21	0.00	108.86	2.94	ND	ND	ND	ND	ND	--	--	--
10/12/95	122.07	16.38	0.00	105.69	-3.17	ND	ND	ND	ND	ND	--	--	--
04/08/96	122.07	--	--	--	--	--	--	--	--	--	--	--	--

(Screen Interval in feet: 11.04-25.24)

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 1991 Through December 2005
76 Station 5105

Date Sampled	TOC Elevation	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-6 continued													
09/26/05	124.02	16.03	0.00	107.99	--	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/01/05	124.02	15.02	0.00	109.00	1.01	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-7 (Screen Interval in feet: 12.04-25.33)													
09/26/05	121.46	12.75	0.00	108.71	--	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.1	
12/01/05	121.46	13.80	0.00	107.66	-1.05	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1200	
MW-8 (Screen Interval in feet: 12.36-25.20)													
09/26/05	122.16	15.49	0.00	106.67	--	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/01/05	122.16	13.64	0.00	108.52	1.85	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-9 (Screen Interval in feet: 12.72-25.27)													
09/26/05	123.59	15.89	0.00	107.70	--	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/01/05	123.59	14.14	0.00	109.45	1.75	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-10 (Screen Interval in feet: 11.98-24.10)													
09/26/05	123.55	15.33	0.00	108.22	--	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	960	
12/01/05	123.55	12.65	0.00	110.90	2.68	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	760	
MW-11 (Screen Interval in feet: 8.12-25.14)													
09/26/05	123.14	14.91	0.00	108.23	--	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	85	
12/01/05	123.14	12.19	0.00	110.95	2.72	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	81	
MW-12 (Screen Interval in feet: 8.08-24.90)													
09/26/05	122.34	13.24	0.00	109.10	--	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3100	
12/01/05	122.34	10.78	0.00	111.56	2.46	ND>50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.2	

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 5105

Date Sampled	TPH-D	1,4-Dichlorobenzene (µg/l)	EDC (µg/l)	1,1-Dichloroethane (µg/l)	1,2-Dichlorobenzene (µg/l)	EDB (Total) (µg/l)	Lead (Total) (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DPE 8260B (µg/l)	ETBE 8260B (µg/l)	Nitrite (mg/l)	Zinc (mg/l)	Ethanol 8260B (µg/l)	TPPH 8260B (µg/l)
MW-1															
05/25/91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10/07/91	ND	ND	ND	1.9	1.2	--	0.027	--	--	--	--	1.8	0.12	--	--
01/10/92	ND	ND	ND	ND	ND	ND	0.0089	--	--	--	--	--	0.11	--	--
04/08/92	ND	ND	ND	ND	ND	ND	0.013	--	--	--	--	20	0.02	--	--
07/02/92	ND	0.95	0.56	ND	1.8	--	0.017	--	--	--	--	--	0.15	--	--
10/06/92	--	--	--	--	--	--	--	--	--	--	--	1.2	--	--	--
04/01/93	--	0.77	ND	ND	2	--	--	--	--	--	--	19	--	--	--
10/04/93	--	2.1	ND	ND	4.6	--	--	--	--	--	--	0.39	--	--	--
04/28/94	--	0.64	0.66	0.5	3.6	--	--	--	--	--	--	8.6	--	--	--
10/19/94	--	0.57	1.3	0.72	2.3	--	--	--	--	--	--	3.3	--	--	--
04/17/95	--	ND	ND	0.58	1.1	--	--	--	--	--	--	12	--	--	--
10/12/95	--	ND	ND	ND	ND	--	--	--	--	--	--	11	--	--	--
04/08/96	--	ND	ND	0.98	ND	--	--	--	--	--	--	12	--	--	--
10/29/96	--	ND	ND	4.4	--	--	--	ND	ND	ND	ND	2.1	--	--	--
08/31/98	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
04/05/99	--	--	--	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
03/31/00	--	--	ND	--	--	--	--	ND	ND	ND	ND	ND	ND	ND	--
04/06/01	--	--	ND	--	--	ND	--	ND	ND	ND	ND	ND	ND	ND	--
04/22/02	--	--	ND>2.0	--	ND>2.0	--	ND>2.0	ND<100	ND<100	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<500	--
04/11/03	--	--	ND>2.0	--	ND>2.0	--	ND>2.0	ND<100	ND<100	ND<2.0	ND<2.0	ND<2.0	ND<500	--	--
05/12/04	--	--	ND>5.0	--	ND>5.0	--	ND>5.0	ND<50	ND<50	ND<10	ND<10	ND<5.0	ND<500	--	--
06/07/05	--	--	ND>2.5	--	ND>2.5	--	ND>2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<250	--
09/26/05	ND>200	--	ND<0.50	--	ND<0.50	--	ND<0.50	54	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<250	260
12/01/05	ND>50	--	ND>10	--	ND>10	--	ND>10	ND<100	ND<100	ND<20	ND<10	ND<10	ND<2000	ND<2000	--
MW-2	05/25/91	--	ND	ND	ND	--	--	--	--	--	--	--	3.5	--	--

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 5105

Date Sampled	TPH-D	1,4-Dichlorobenzene ($\mu\text{g/l}$)	EDC	1,1-Dichloroethane ($\mu\text{g/l}$)	1,2-Dichlorobenzene ($\mu\text{g/l}$)	EDB	Lead (Total)	TAME 8260B	TBA 8260B	DPE 8260B	ETBE 8260B	Nitrite (mg/l)	Zinc (mg/l)	Ethanol 8260B (mg/l)	TPPH 8260B (mg/l)
MW-2 continued															
10/07/91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	0.51	--
01/10/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
04/08/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
07/02/92	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
10/06/92	--	--	--	--	--	--	--	--	--	--	--	--	--	35	--
04/01/93	--	--	--	--	--	--	--	--	--	--	--	--	--	2.9	--
10/04/93	--	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--
04/28/94	--	--	--	--	--	--	--	--	--	--	--	--	--	2.5	--
10/19/94	--	--	--	--	--	--	--	--	--	--	--	--	--	3.6	--
04/17/95	--	--	--	--	--	--	--	--	--	--	--	--	--	4.9	--
MW-3															
05/25/91	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	ND	--
10/07/91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	18	--
01/10/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	24	--
04/08/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	26	--
07/02/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	22	--
10/06/92	--	--	--	--	--	--	--	--	--	--	--	--	--	63	--
04/01/93	--	--	--	--	--	--	--	--	--	--	--	--	--	20	--
10/04/93	--	--	--	--	--	--	--	--	--	--	--	--	--	23	--
04/28/94	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
04/17/95	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
04/08/96	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
08/31/98	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
04/05/99	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
03/31/00	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--
04/06/01	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	--

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 5105

Date Sampled	TPH-D	1,4-Dichlorobenzene ($\mu\text{g/l}$)	EDC	1,1-Dichloroethane ($\mu\text{g/l}$)	1,2-Dichlorobenzene ($\mu\text{g/l}$)	EDB	Lead (Total)	TAME 8260B	TBA 8260B	DPE 8260B	ETBE 8260B	Nitrite	Zinc	Ethanol 8260B	TPPH 8260B
	($\mu\text{g/l}$)	($\mu\text{g/l}$)	($\mu\text{g/l}$)	($\mu\text{g/l}$)	($\mu\text{g/l}$)	($\mu\text{g/l}$)	($\mu\text{g/l}$)	($\mu\text{g/l}$)	($\mu\text{g/l}$)	($\mu\text{g/l}$)	($\mu\text{g/l}$)	(mg/l)	(mg/l)	($\mu\text{g/l}$)	($\mu\text{g/l}$)
MW-3 continued															
04/22/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04/11/03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05/12/04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06/07/05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09/26/05	ND<200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/01/05	ND<50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4															
04/08/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
07/02/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-	-
10/06/92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04/01/93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/04/93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04/28/94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/19/94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04/17/95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/12/95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04/08/96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5															
01/27/94	ND	1.2	ND	1.5	1.4	-	-	-	-	-	-	-	-	-	-
04/28/94	ND	ND	ND	1.6	ND	-	-	-	-	-	-	-	-	-	-
10/19/94	ND	ND	ND	1.6	ND	-	-	-	-	-	-	-	-	-	-
04/17/95	ND	0.92	ND	1.1	1.1	-	-	-	-	-	-	-	-	-	-
10/12/95	ND	ND	ND	0.53	ND	-	-	-	-	-	-	-	-	-	-
MW-6															
09/26/05	ND<200	-	ND<0.50	-	-	ND<0.50	-	ND<10	ND<0.50	ND<0.50	-	-	-	-	-
12/01/05	ND<50	-	ND<0.50	-	-	ND<0.50	-	ND<5.0	ND<1.0	ND<0.50	-	-	-	-	-

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 5105

Date Sampled	TPH-D ($\mu\text{g/l}$)	1,4-Dichloro-benzene ($\mu\text{g/l}$)	EDC ($\mu\text{g/l}$)	1,1-Dichloro-ethane ($\mu\text{g/l}$)	1,2-Dichloro-benzene ($\mu\text{g/l}$)	EDB ($\mu\text{g/l}$)	Lead (Total) 8260B ($\mu\text{g/l}$)	TAME 8260B ($\mu\text{g/l}$)	TBA 8260B ($\mu\text{g/l}$)	DPE 8260B ($\mu\text{g/l}$)	ETBE 8260B ($\mu\text{g/l}$)	Nitrite (mg/l)	Zinc (mg/l)	Ethanol 8260B ($\mu\text{g/l}$)	TPPH 8260B ($\mu\text{g/l}$)
MW-7															
09/26/05	ND<200	--	ND<0.50	--	--	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	--	--	ND<250	ND<50	
12/01/05	ND<50	--	ND<10	--	--	ND<10	--	ND<10	2400	ND<20	ND<10	--	ND<2000	--	
MW-8															
09/26/05	ND<200	--	ND<0.50	--	--	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	--	--	ND<250	ND<50	
12/01/05	ND<50	--	ND<0.50	--	--	ND<0.50	--	ND<0.50	ND<5.0	ND<1.0	ND<0.50	--	ND<100	--	
MW-9															
09/26/05	ND<200	--	ND<0.50	--	--	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	--	--	ND<250	ND<50	
12/01/05	ND<50	--	ND<0.50	--	--	ND<0.50	--	ND<0.50	ND<5.0	ND<1.0	ND<0.50	--	ND<100	--	
MW-10															
09/26/05	ND<200	--	ND<0.50	--	--	ND<0.50	--	ND<1.0	66	ND<0.50	--	--	ND<250	420	
12/01/05	ND<50	--	ND<5.0	--	--	ND<5.0	--	ND<5.0	93	ND<10	ND<5.0	--	ND<1000	--	
MW-11															
09/26/05	ND<200	--	ND<0.50	--	--	ND<0.50	--	ND<1.0	ND<0.50	ND<0.50	--	--	ND<250	52	
12/01/05	ND<50	--	ND<0.50	--	--	ND<0.50	--	ND<0.50	ND<5.0	ND<1.0	ND<0.50	--	ND<100	--	
MW-12															
09/26/05	ND<200	--	2.6	--	--	ND<0.50	--	ND<0.50	1200	ND<0.50	ND<0.50	--	ND<250	1000	
12/01/05	ND<50	--	ND<0.50	--	--	ND<0.50	--	ND<0.50	ND<5.0	ND<1.0	ND<0.50	--	ND<100	--	

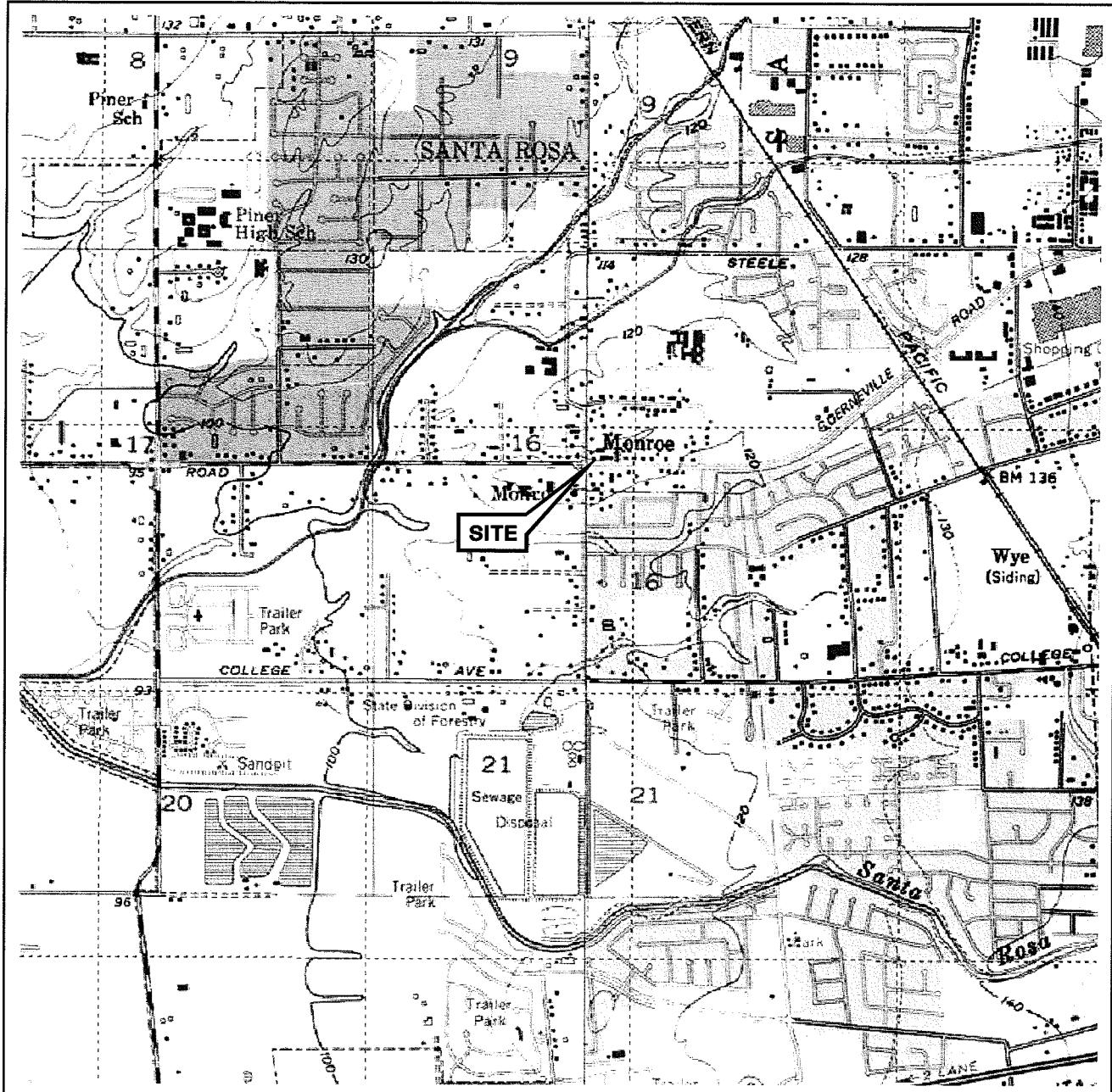
Table 3 b
ADDITIONAL ANALYTICAL RESULTS
76 Station 5105

Date Sampled	Nickel	Cadmium	Chromium	TOG
	(mg/l)	(mg/l)	(mg/l)	(mg/l)
MW-1				
05/25/91	--	--	--	ND
10/07/91	0.31	ND	0.19	ND
01/10/92	ND	ND	0.0053	ND
04/08/92	ND	ND	ND	ND
07/02/92	0.38	ND	0.13	--
10/06/92	ND	--	ND	--
01/06/93	ND	--	ND	--
04/01/93	0.13	--	0.045	--
07/02/93	ND	--	0.011	--
10/04/93	ND	--	ND	--
04/28/94	0.12	--	0.067	--
10/19/94	0.043	--	0.016	--
04/17/95	0.027	--	0.011	--
10/12/95	0.051	--	0.029	--
04/08/96	ND	--	ND	--
MW-5				
01/27/94	--	--	--	ND
04/28/94	--	--	--	ND
10/19/94	--	--	--	ND
04/17/95	--	--	--	ND
10/12/95	--	--	--	ND

Table 4
ADDITIONAL ANALYTICAL RESULTS
76 Station 5105

Date Sampled	Barium (mg/l)	Mercury (mg/l)
MW-5		
01/27/94	0.0035	ND
04/28/94	0.46	ND
10/19/94	0.094	0.0044
04/17/95	0.24	ND
10/12/95	0.17	ND

FIGURES



0 1/4 1/2 3/4 1 MILE

SCALE 1:24,000

N

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Santa Rosa Quadrangle

QUADRANGLE
LOCATION

VICINITY MAP

76 Station 5105
1950 Guerneville Road
Santa Rosa, California

PS = 1:1

TRC

FIGURE 2

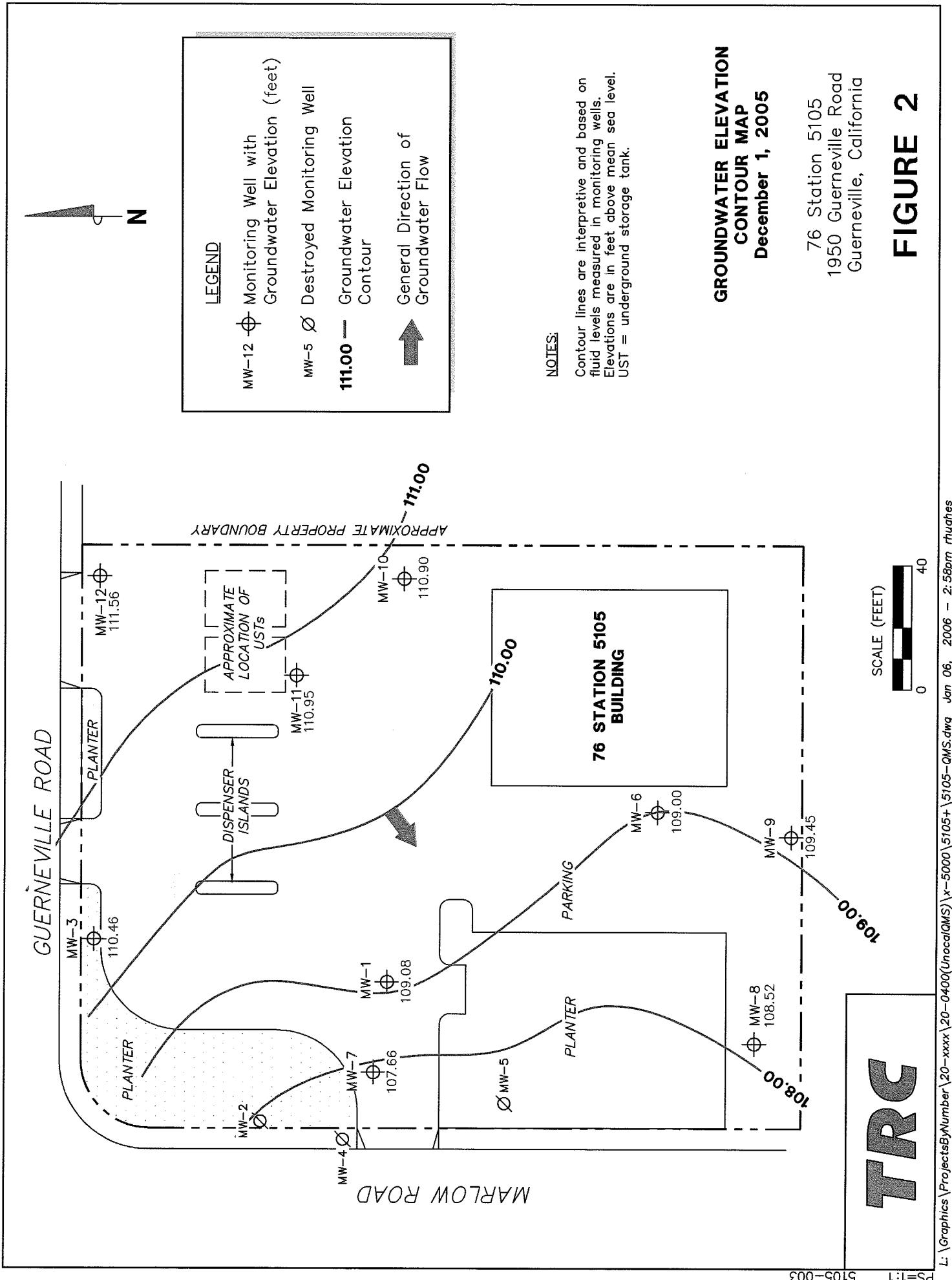
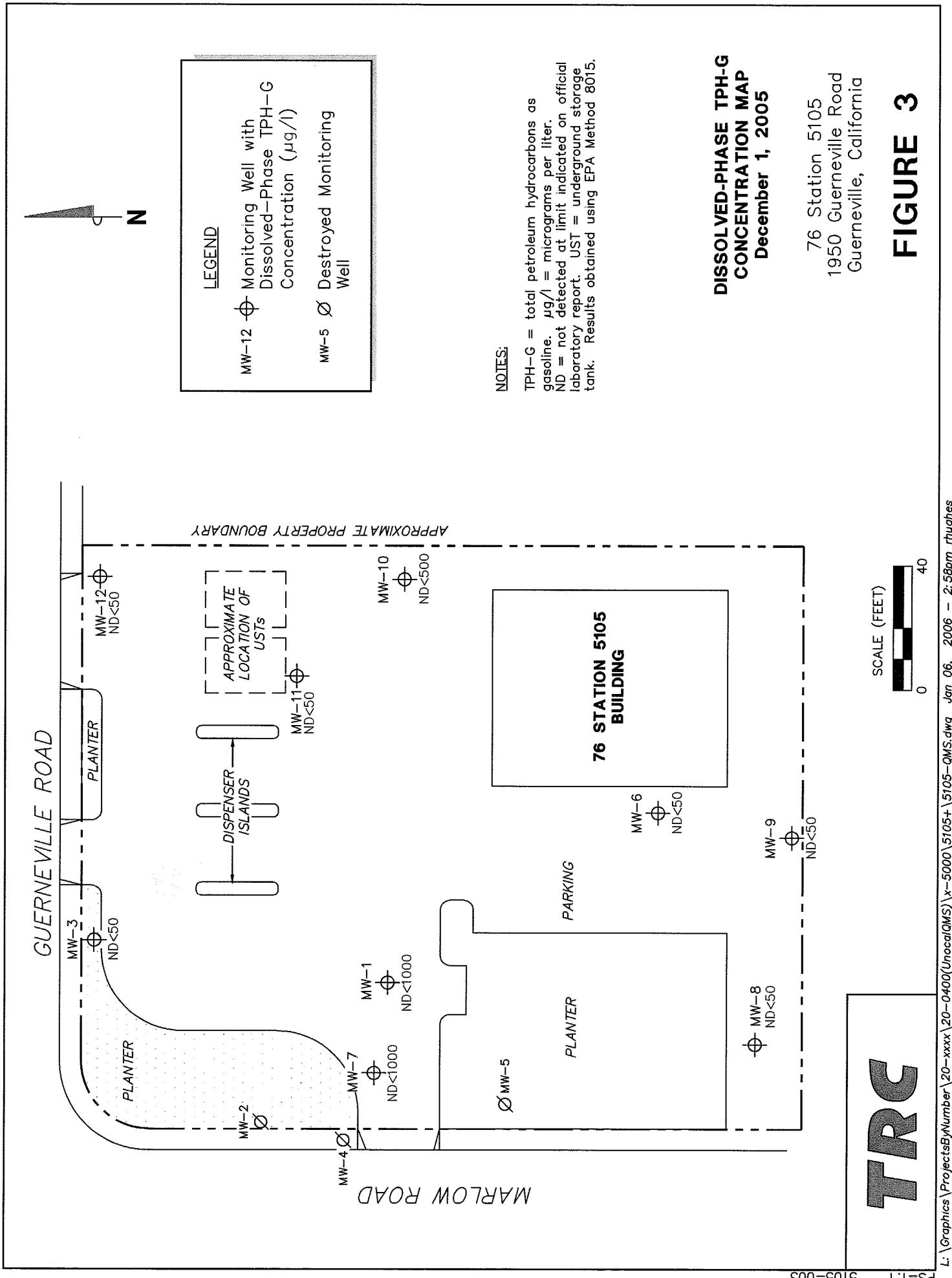


FIGURE 3



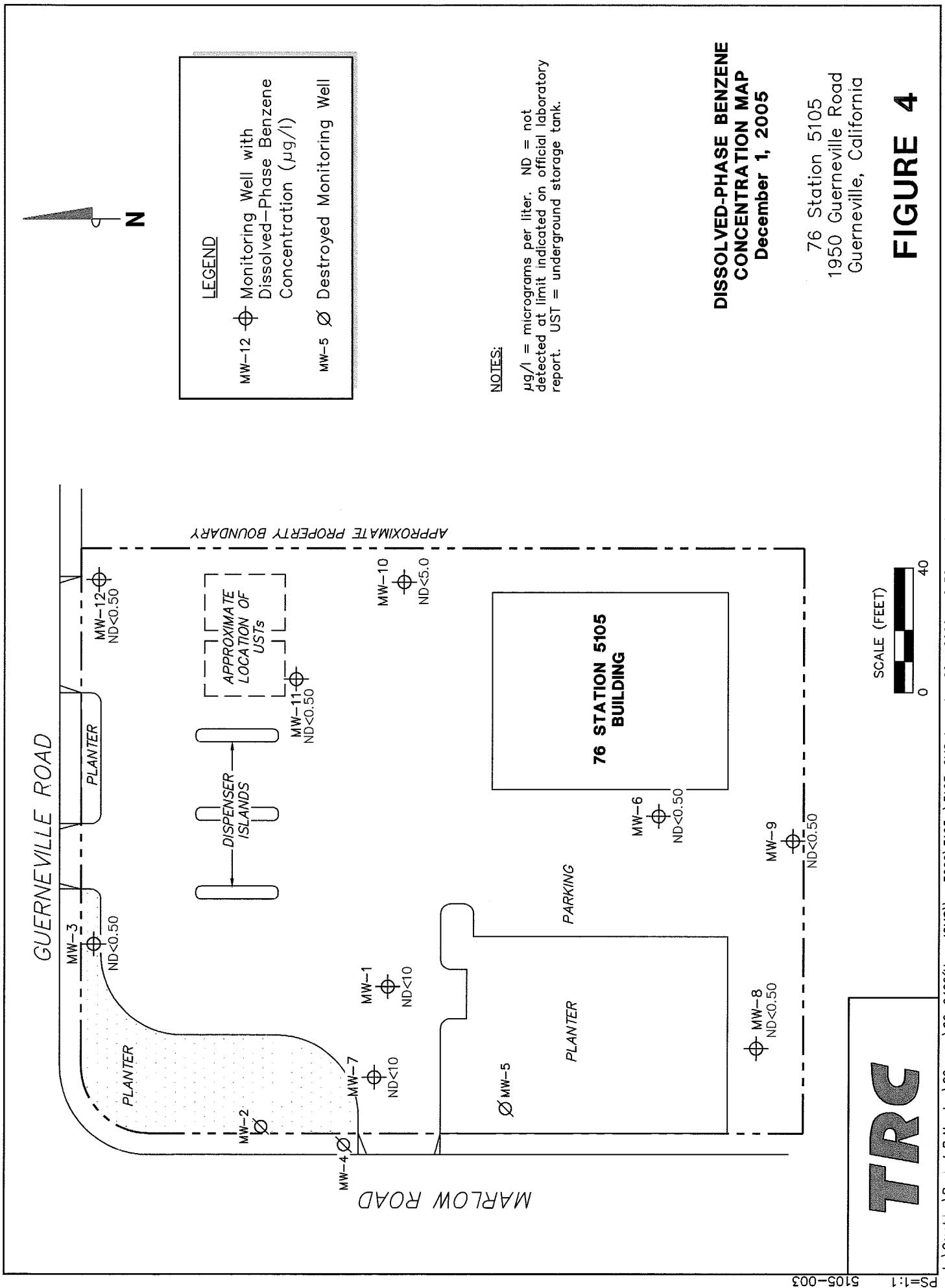
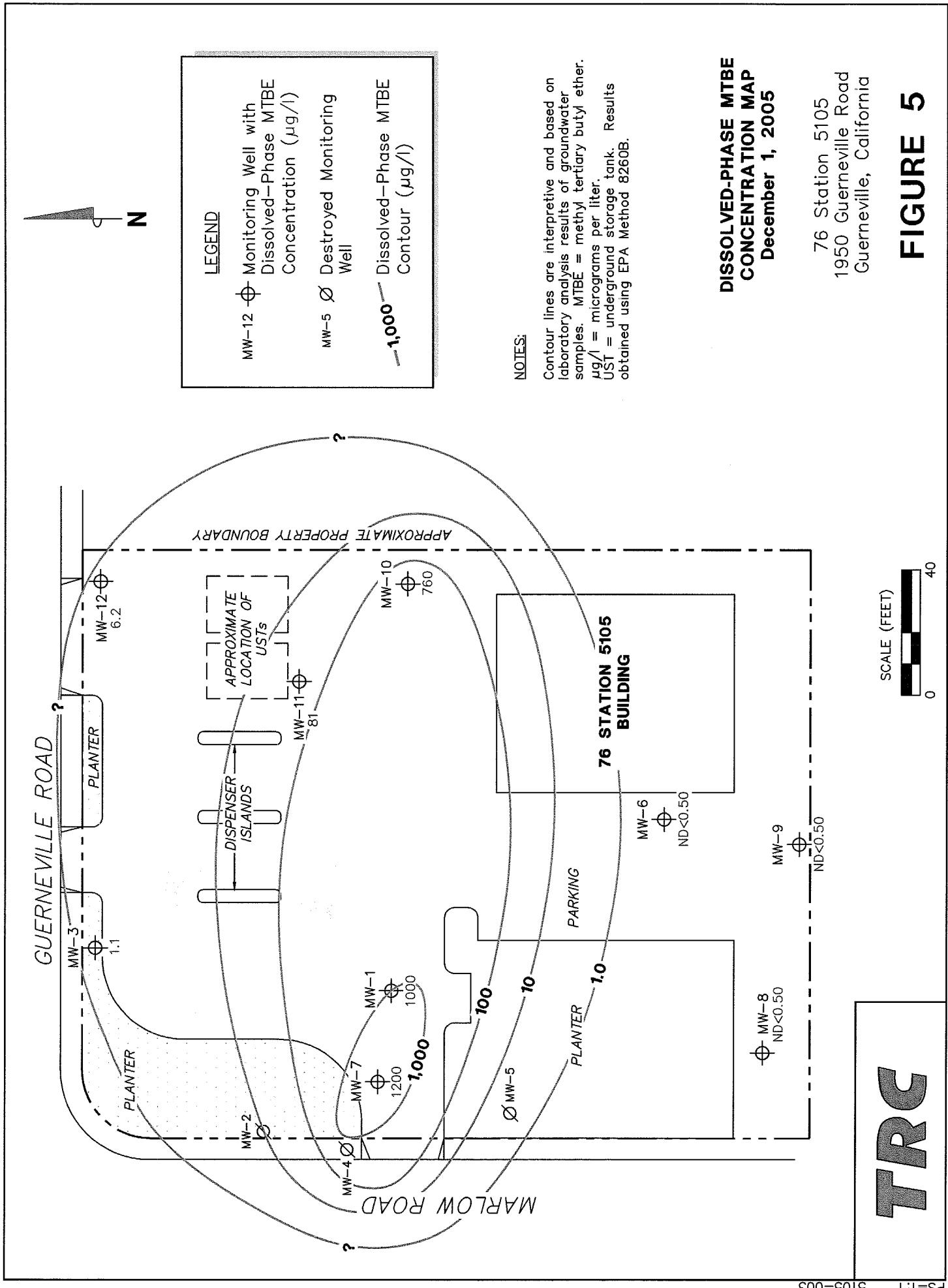


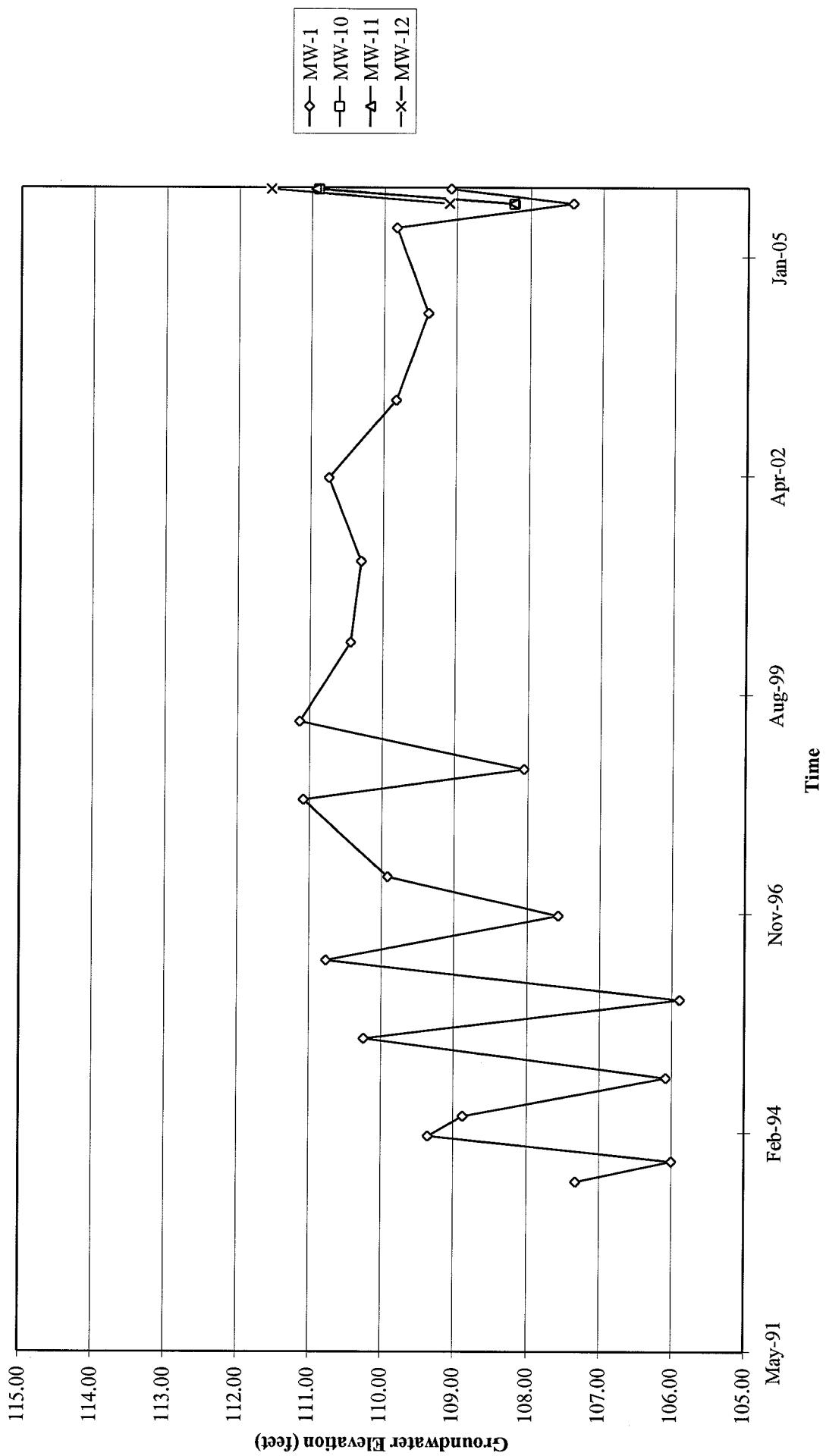
FIGURE 4

FIGURE 5

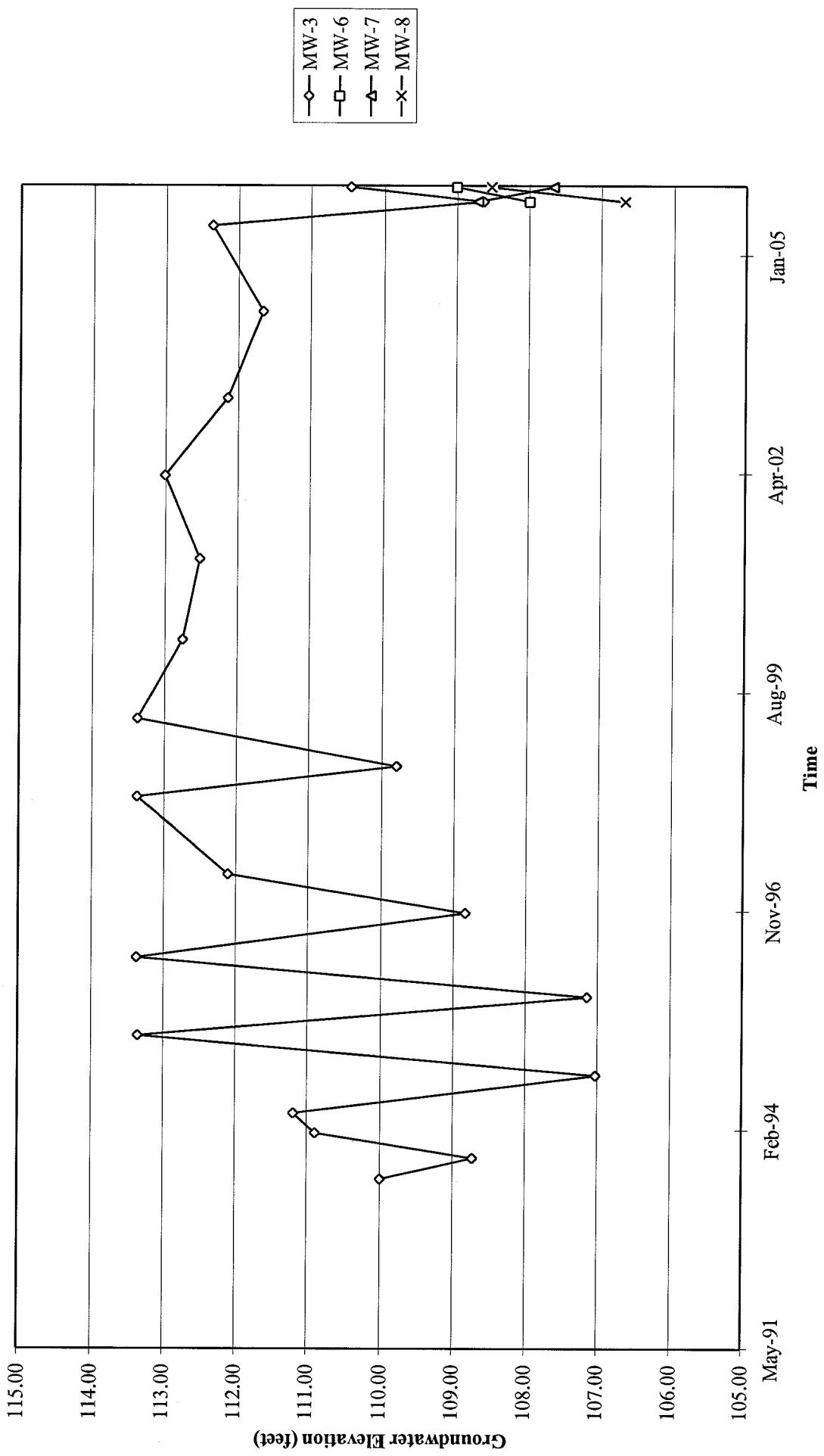


GRAPHS

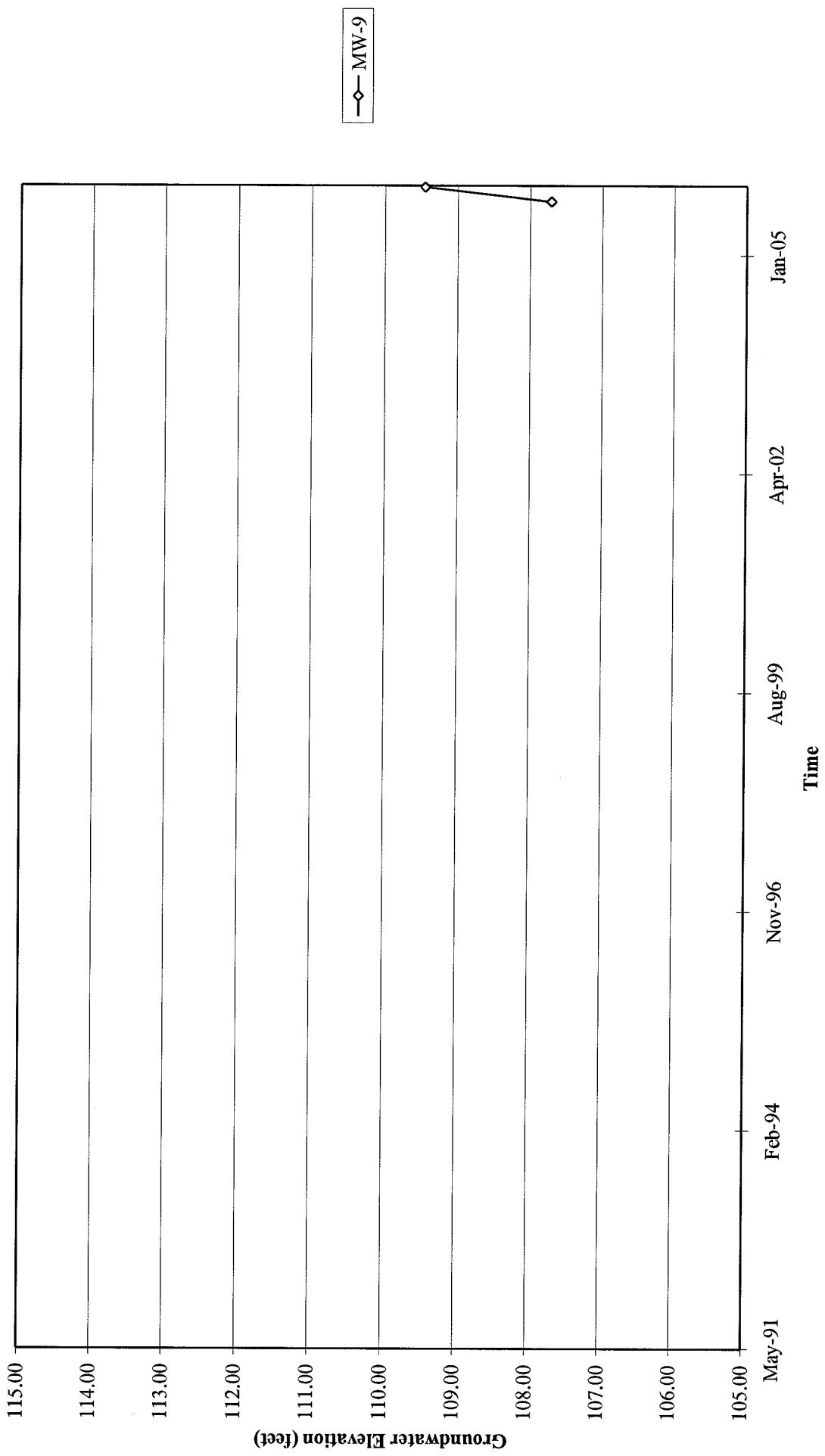
Groundwater Elevations vs. Time
76 Station 5105



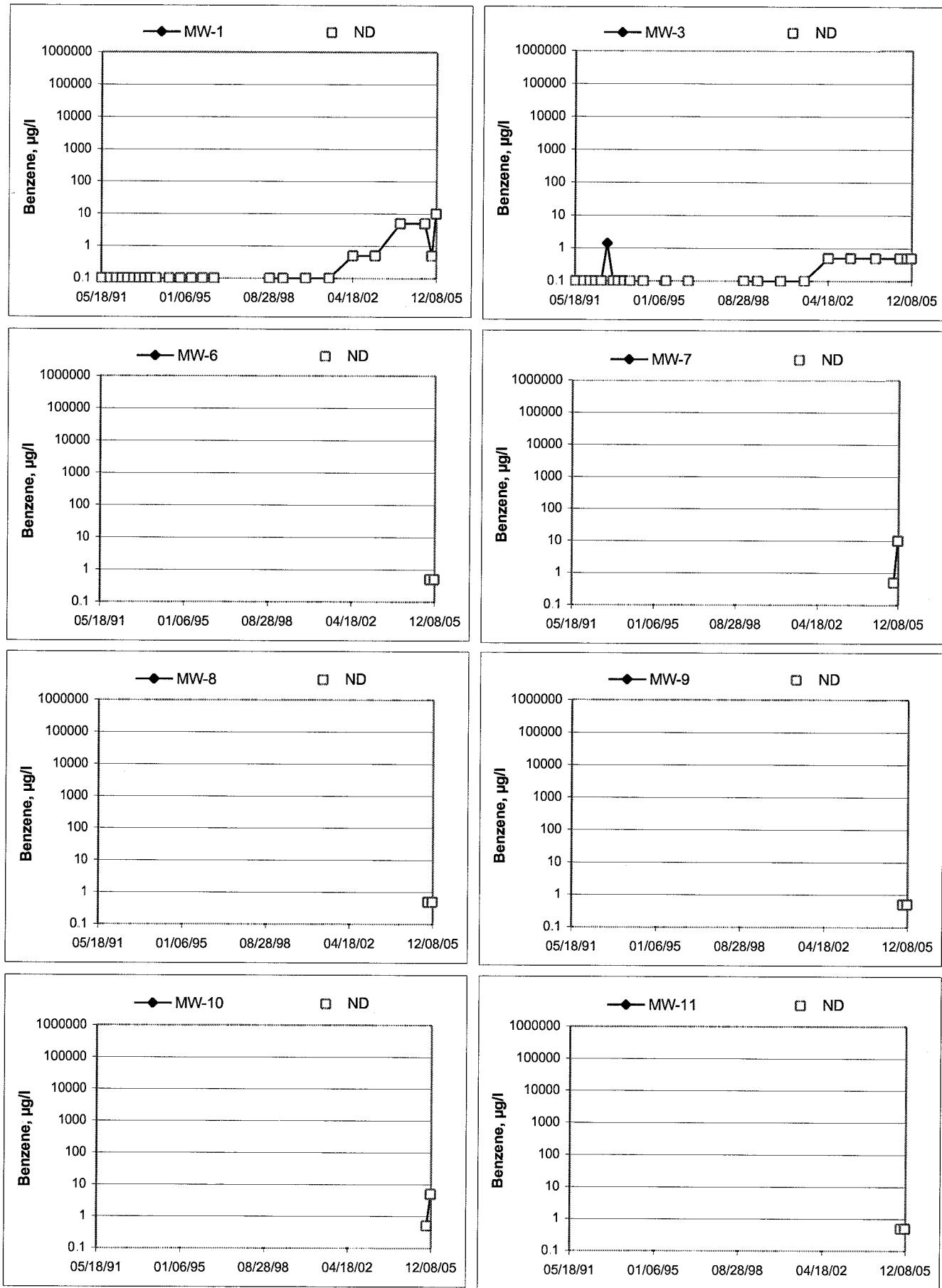
Groundwater Elevations vs. Time
76 Station 5105



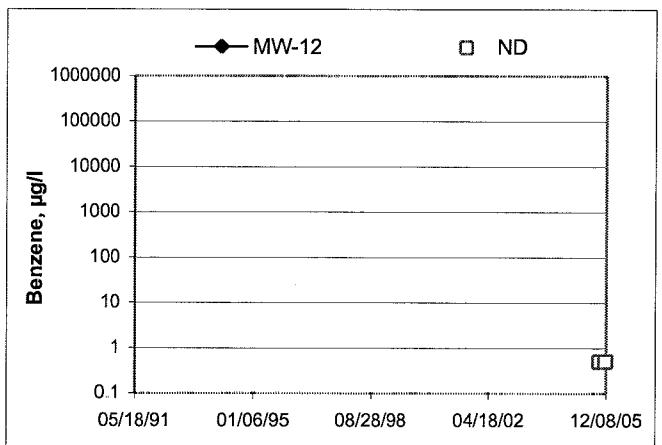
Groundwater Elevations vs. Time
76 Station 5105



Benzene Concentrations vs Time
76 Station 5105



Benzene Concentrations vs Time
76 Station 5105



GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, $\frac{1}{2}$ -inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

Decontamination

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular wells, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.

FIELD MONITORING DATA SHEET

Technician: PAT KONY

Job #/Task #: 41050001/FA20

Date: 12-01-05

Site # 5105

Project Manager: A. Collins

Page 1 of 1

GROUNDWATER SAMPLING FIELD NOTES

Site: S105

Technician: John Henry

Project No.: 41050001

Date: 12-1-05

Well No.: MW-8

Depth to Water (feet): 13-64

Total Depth (feet): 25.19

Water Column (feet): 11.55

80% Recharge Depth (feet) 13.95

Purae Method: D-2

Depth to Product (feet): _____

LPH & Water Recovered (gallons): _____

Casing Diameter (Inches) 7

1 Well Volume (gallons): 2

Well No.: MW-9

Purge Method: D-2

Depth to Water (feet): 14 14

Depth to Product (feet): _____

Total Depth (feet): 25.2

LPH & Water Recovered (gallons):

Water Column (feet) 11.09

Casing Diameter (Inches) 2"

GROUNDWATER SAMPLING FIELD NOTES

Site: S105

Technician: Anthony
Project No.: 41050001

Date: 12-01-05

Well No.: Min-6

Depth to Water (feet): 15.02

Total Depth (feet): 25 1/3

Water Column (feet): 10.11

80% Recharge Depth (feet): 17.04

Purge Method: O₂

Depth to Product (feet): _____

LPH & Water Recovered (gallons): _____

Casing Diameter (Inches): 2"

Well No.: MW-3

Purge Method: V-i-2

Depth to Water (feet) 1129

Depth to Product (feet): _____

Total Depth (feet): 2436

LPH & Water Recovered (gallons):

Water Column (feet) 13.67

Casing Diameter (Inches) 2

80% Recharge Depth (feet): 13.90

1 Well Volume (gallons): 2

GROUNDWATER SAMPLING FIELD NOTES

Site: 5105

Technician: Anthony

Project No.: 41050001

Date: 12-01-05

Well No.: MW-7

Purge Method: D_{ca}

Depth to Water (feet): 13.80

Depth to Product (feet): _____

Total Depth (feet) 25.27

LPH & Water Recovered (gallons): _____

Water Column (feet): 11.97

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 16.09

1 Well Volume (gallons): 2

Well No.: M-1

Purge Method: D_{cr}

Depth to Water (feet): 12.19

Depth to Product (feet): _____

Total Depth (feet): 25.06

LPH & Water Recovered (gallons):

Water Column (feet) 12.87

Casing Diameter (Inches) 2

80% Recharge Depth (feet): 14.76

1 Well Volume (gallons) 2

GROUNDWATER SAMPLING FIELD NOTES

Technician: Anthony
Project No.: 41050001

Site: 5105

Well No.: Mu-1

Depth to Water (feet): 13-65

Total Depth (feet): 2838

Water Column (feet): 14.73

80% Recharge Depth (feet): 13.65

For more information about the study, please contact Dr. John D. Cawley at (609) 258-4626 or via email at jdcawley@princeton.edu.

Purge Method: Dry

Depth to Product (feet): _____

LPH & Water Recovered (gallons): _____

Casing Diameter (Inches): 2^{1/2}

1 Well Volume (gallons): 2

Well No.: MW-16

Purge Method O₂

Depth to Water (feet): 12.65

Depth to Product (feet): _____

Total Depth (feet): 24.77

LPH & Water Recovered (gallons):

Water Column (feet): 12.12

Casing Diameter (Inches) 2"

80% Recharge Depth (feet): 15.07

1 Well Volume (gallons): 2

GROUNDWATER SAMPLING FIELD NOTES

Technician: Anthony Project No.: 41050001 Date: 12-01-05

Site: 5105

Well No.: MW-12

Depth to Water (feet): 10.78

Total Depth (feet): 2473

Water Column (feet) 13.93

80% Recharge Depth (feet): 13.57

Purge Method: D-2

Depth to Product (feet): _____

LPH & Water Recovered (gallons): _____

Casing Diameter (Inches): 2"

Well No.: _____

Purge Method: _____

Depth to Water (feet):

Depth to Product (feet): _____

Total Depth (feet): _____

LPH & Water Recovered (gallons): _____

Water Column (feet):

Casing Diameter (Inches): _____

80% Recharge Depth (feet): _____

1 Well Volume (gallons): _____

ANALYTICAL REPORT

Job Number: 720-841-1

Job Description: Conoco Phillips #5105, Santa Rosa

For:

TRC Solutions
21 Technology Drive
Irvine, CA 92718

Attention: Ms. Anju Farfan



Dimple Sharma
Project Manager I
dsharma@stl-inc.com

12/22/2005

METHOD SUMMARY

Client: TRC Solutions

Job Number: 720-841-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS Purge-and-Trap	STL-SF	SW846	8260B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846	5030B
Organic Compounds in Water by Microextraction	STL-SF	SW846	8015B
		SW846	3511

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: TRC Solutions

Job Number: 720-841-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled		Date/Time Received	
720-841-1	MW-8	Water	12/01/2005	1206	12/05/2005	1700
720-841-2	MW-9	Water	12/01/2005	1216	12/05/2005	1700
720-841-3	MW-6	Water	12/01/2005	1225	12/05/2005	1700
720-841-4	MW-3	Water	12/01/2005	1237	12/05/2005	1700
720-841-5	MW-7	Water	12/01/2005	1244	12/05/2005	1700
720-841-6	MW-11	Water	12/01/2005	1255	12/05/2005	1700
720-841-7	MW-1	Water	12/01/2005	1304	12/05/2005	1700
720-841-8	MW-10	Water	12/01/2005	1314	12/05/2005	1700
720-841-9	MW-12	Water	12/01/2005	1323	12/05/2005	1700

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-8

Lab Sample ID: 720-841-1

Date Sampled: 12/01/2005 1206

Client Matrix: Water

Date Received: 12/05/2005 1700

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-3036	Instrument ID:	Varian 3900A
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200512\12
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	12/14/2005 0915			Final Weight/Volume:	10 mL
Date Prepared:	12/14/2005 0915				

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec	Acceptance	Limits
Toluene-d8	99	77 - 121	
1,2-Dichloroethane-d4	87	73 - 130	

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-9

Lab Sample ID: 720-841-2

Date Sampled: 12/01/2005 1216

Client Matrix: Water

Date Received: 12/05/2005 1700

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-3036	Instrument ID:	Varian 3900A
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200512\12
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	12/14/2005	1020		Final Weight/Volume:	10 mL
Date Prepared:	12/14/2005	1020			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	1.0		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	100		77 - 121
1,2-Dichloroethane-d4	87		73 - 130

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-6

Lab Sample ID: 720-841-3

Date Sampled: 12/01/2005 1225

Client Matrix: Water

Date Received: 12/05/2005 1700

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-3036	Instrument ID:	Varian 3900A
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200512\12
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	12/14/2005	1041		Final Weight/Volume:	10 mL
Date Prepared:	12/14/2005	1041			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec	Acceptance	Limits
Toluene-d8	101	77 - 121	
1,2-Dichloroethane-d4	86	73 - 130	

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-3

Lab Sample ID: 720-841-4

Date Sampled: 12/01/2005 1237

Client Matrix: Water

Date Received: 12/05/2005 1700

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-3036	Instrument ID:	Varian 3900A
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200512\12
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	12/14/2005	1103		Final Weight/Volume:	10 mL
Date Prepared:	12/14/2005	1103			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	1.1		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec	Acceptance	Limits
Toluene-d8	98	77 - 121	
1,2-Dichloroethane-d4	85	73 - 130	

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-7

Lab Sample ID: 720-841-5

Date Sampled: 12/01/2005 1244

Client Matrix: Water

Date Received: 12/05/2005 1700

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-3082	Instrument ID:	Varian 3900A
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200512\12
Dilution:	20			Initial Weight/Volume:	10 mL
Date Analyzed:	12/15/2005	1218		Final Weight/Volume:	10 mL
Date Prepared:	12/15/2005	1218			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		10
Benzene	ND		10
Ethanol	ND		2000
Ethylbenzene	ND		10
MTBE	1200		10
TAME	ND		10
Toluene	ND		10
Xylenes, Total	ND		20
TBA	2400		100
DIPE	ND		20
EDB	ND		10
Gasoline Range Organics (GRO)-C6-C12	ND		1000
Ethyl tert-butyl ether	ND		10
Surrogate	%Rec		Acceptance Limits
Toluene-d8	101		77 - 121
1,2-Dichloroethane-d4	93		73 - 130

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-11

Lab Sample ID: 720-841-6

Date Sampled: 12/01/2005 1255

Client Matrix: Water

Date Received: 12/05/2005 1700

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-3082	Instrument ID:	Varian 3900A
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200512\12
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	12/15/2005	1240		Final Weight/Volume:	10 mL
Date Prepared:	12/15/2005	1240			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	81		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	98		77 - 121
1,2-Dichloroethane-d4	83		73 - 130

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-1

Lab Sample ID: 720-841-7

Date Sampled: 12/01/2005 1304

Client Matrix: Water

Date Received: 12/05/2005 1700

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-3082	Instrument ID:	Varian 3900A
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200512\12
Dilution:	20			Initial Weight/Volume:	10 mL
Date Analyzed:	12/15/2005	1345		Final Weight/Volume:	10 mL
Date Prepared:	12/15/2005	1345			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		10
Benzene	ND		10
Ethanol	ND		2000
Ethylbenzene	ND		10
MTBE	1000		10
TAME	ND		10
Toluene	ND		10
Xylenes, Total	ND		20
TBA	ND		100
DIPE	ND		20
EDB	ND		10
Gasoline Range Organics (GRO)-C6-C12	ND		1000
Ethyl tert-butyl ether	ND		10
Surrogate	%Rec		Acceptance Limits
Toluene-d8	102		77 - 121
1,2-Dichloroethane-d4	87		73 - 130

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-10

Lab Sample ID: 720-841-8

Date Sampled: 12/01/2005 1314

Client Matrix: Water

Date Received: 12/05/2005 1700

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-3082	Instrument ID:	Varian 3900A
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200512\12
Dilution:	10			Initial Weight/Volume:	10 mL
Date Analyzed:	12/15/2005 1302			Final Weight/Volume:	10 mL
Date Prepared:	12/15/2005 1302				

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		5.0
Benzene	ND		5.0
Ethanol	ND		1000
Ethylbenzene	ND		5.0
MTBE	760		5.0
TAME	ND		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
TBA	93		50
DIPE	ND		10
EDB	ND		5.0
Gasoline Range Organics (GRO)-C6-C12	ND		500
Ethyl tert-butyl ether	ND		5.0
Surrogate	%Rec	Acceptance	Limits
Toluene-d8	103	77 - 121	
1,2-Dichloroethane-d4	101	73 - 130	

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-12

Lab Sample ID: 720-841-9

Date Sampled: 12/01/2005 1323

Client Matrix: Water

Date Received: 12/05/2005 1700

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-3082	Instrument ID:	Varian 3900A
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200512\12
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	12/15/2005	1323		Final Weight/Volume:	10 mL
Date Prepared:	12/15/2005	1323			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	6.2		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8	100		77 - 121
1,2-Dichloroethane-d4	84		73 - 130

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-8

Lab Sample ID: 720-841-1

Date Sampled: 12/01/2005 1206

Client Matrix: Water

Date Received: 12/05/2005 1700

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-2953	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-2748	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	12/11/2005 0911			Final Weight/Volume:	2 mL
Date Prepared:	12/08/2005 1220			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec	Acceptance	Limits
o-Terphenyl	87	60 - 130	

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-9

Lab Sample ID: 720-841-2

Date Sampled: 12/01/2005 1216

Client Matrix: Water

Date Received: 12/05/2005 1700

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-2953	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-2748	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	12/11/2005 0943			Final Weight/Volume:	2 mL
Date Prepared:	12/08/2005 1220			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec	Acceptance	Limits
o-Terphenyl	86	60 - 130	

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-6

Lab Sample ID: 720-841-3

Date Sampled: 12/01/2005 1225

Client Matrix: Water

Date Received: 12/05/2005 1700

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-2953	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-2748	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	12/11/2005	1015		Final Weight/Volume:	2 mL
Date Prepared:	12/08/2005	1220		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	84		60 - 130

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-3

Lab Sample ID: 720-841-4

Date Sampled: 12/01/2005 1237

Client Matrix: Water

Date Received: 12/05/2005 1700

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-2953	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-2748	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	12/11/2005	1047		Final Weight/Volume:	2 mL
Date Prepared:	12/08/2005	1220		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	86		60 - 130

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-7

Lab Sample ID: 720-841-5

Date Sampled: 12/01/2005 1244

Client Matrix: Water

Date Received: 12/05/2005 1700

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-2953	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-2748	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	12/11/2005	1120		Final Weight/Volume:	2 mL
Date Prepared:	12/08/2005	1220		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	80		60 - 130

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-11

Lab Sample ID: 720-841-6

Date Sampled: 12/01/2005 1255

Client Matrix: Water

Date Received: 12/05/2005 1700

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-2953	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-2748	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	12/11/2005 1153			Final Weight/Volume:	2 mL
Date Prepared:	12/08/2005 1220			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec	Acceptance	Limits
o-Terphenyl	91	60 - 130	

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-1

Lab Sample ID: 720-841-7

Date Sampled: 12/01/2005 1304

Client Matrix: Water

Date Received: 12/05/2005 1700

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-2953	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-2748	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	12/11/2005 1226			Final Weight/Volume:	2 mL
Date Prepared:	12/08/2005 1220			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	89		60 - 130

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-10

Lab Sample ID: 720-841-8

Date Sampled: 12/01/2005 1314

Client Matrix: Water

Date Received: 12/05/2005 1700

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-2953	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-2748	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	12/11/2005	1259		Final Weight/Volume:	2 mL
Date Prepared:	12/08/2005	1220		Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec	Acceptance Limits	
o-Terphenyl	88	60 - 130	

Analytical Data

Client: TRC Solutions

Job Number: 720-841-1

Client Sample ID: MW-12

Lab Sample ID: 720-841-9

Date Sampled: 12/01/2005 1323

Client Matrix: Water

Date Received: 12/05/2005 1700

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch:	720-2953	Instrument ID:	Varian DRO4
Preparation:	3511	Prep Batch:	720-2748	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	35.00 mL
Date Analyzed:	12/12/2005 1123			Final Weight/Volume:	2 mL
Date Prepared:	12/08/2005 1220			Injection Volume:	
				Column ID:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	85		60 - 130

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description
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Quality Control Results

Client: TRC Solutions

Job Number: 720-841-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-3036				
LCS 720-3036/4	Lab Control Spike	Water	8260B	
LCSD 720-3036/3	Lab Control Spike Duplicate	Water	8260B	
MB 720-3036/5	Method Blank	Water	8260B	
720-841-1	MW-8	Water	8260B	
720-841-1MS	Matrix Spike	Water	8260B	
720-841-1MSD	Matrix Spike Duplicate	Water	8260B	
720-841-2	MW-9	Water	8260B	
720-841-3	MW-6	Water	8260B	
720-841-4	MW-3	Water	8260B	
Analysis Batch:720-3082				
LCS 720-3082/5	Lab Control Spike	Water	8260B	
LCSD 720-3082/4	Lab Control Spike Duplicate	Water	8260B	
MB 720-3082/6	Method Blank	Water	8260B	
720-841-5	MW-7	Water	8260B	
720-841-6	MW-11	Water	8260B	
720-841-7	MW-1	Water	8260B	
720-841-8	MW-10	Water	8260B	
720-841-9	MW-12	Water	8260B	
720-995-A-1 MS	Matrix Spike	Water	8260B	
720-995-A-1 MSD	Matrix Spike Duplicate	Water	8260B	

Quality Control Results

Client: TRC Solutions

Job Number: 720-841-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC Semi VOA				
Prep Batch: 720-2748				
LCS 720-2748/2-A	Lab Control Spike	Water	3511	
LCSD 720-2748/3-A	Lab Control Spike Duplicate	Water	3511	
MB 720-2748/1-A	Method Blank	Water	3511	
720-841-1	MW-8	Water	3511	
720-841-2	MW-9	Water	3511	
720-841-3	MW-6	Water	3511	
720-841-4	MW-3	Water	3511	
720-841-5	MW-7	Water	3511	
720-841-6	MW-11	Water	3511	
720-841-7	MW-1	Water	3511	
720-841-8	MW-10	Water	3511	
720-841-9	MW-12	Water	3511	
Analysis Batch:720-2953				
LCS 720-2748/2-A	Lab Control Spike	Water	8015B	720-2748
LCSD 720-2748/3-A	Lab Control Spike Duplicate	Water	8015B	720-2748
MB 720-2748/1-A	Method Blank	Water	8015B	720-2748
720-841-1	MW-8	Water	8015B	720-2748
720-841-2	MW-9	Water	8015B	720-2748
720-841-3	MW-6	Water	8015B	720-2748
720-841-4	MW-3	Water	8015B	720-2748
720-841-5	MW-7	Water	8015B	720-2748
720-841-6	MW-11	Water	8015B	720-2748
720-841-7	MW-1	Water	8015B	720-2748
720-841-8	MW-10	Water	8015B	720-2748
720-841-9	MW-12	Water	8015B	720-2748

Quality Control Results

Client: TRC Solutions

Job Number: 720-841-1

Method Blank - Batch: 720-3036

Lab Sample ID: MB 720-3036/5

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 12/14/2005 0833

Date Prepared: 12/14/2005 0833

Analysis Batch: 720-3036

Prep Batch: N/A

Units: ug/L

Method: 8260B

Preparation: 5030B

Instrument ID: Varian 3900A

Lab File ID: c:\saturnws\data\200512\12

Initial Weight/Volume: 10 mL

Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	% Rec		Acceptance Limits
Toluene-d8	98		77 - 121
1,2-Dichloroethane-d4	83		73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: TRC Solutions

Job Number: 720-841-1

Laboratory Control/**Laboratory Control Duplicate Recovery Report - Batch: 720-3036 Preparation: 5030B**

LCS Lab Sample ID:CS 720-3036/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/14/2005 0750
Date Prepared: 12/14/2005 0750

Analysis Batch: 720-3036
Prep Batch: N/A
Units: ug/L

Method: 8260B

Preparation: 5030B

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID:CSD 720-3036/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/14/2005 0811
Date Prepared: 12/14/2005 0811

Analysis Batch: 720-3036
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Benzene	96	99	69 - 129	3	25	
MTBE	98	100	65 - 165	2	25	
Toluene	100	102	70 - 130	1	25	
Surrogate	LCS % Rec	LCSD % Rec			Acceptance Limits	
Toluene-d8	101	101			77 - 121	
1,2-Dichloroethane-d4	77	78			73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: TRC Solutions

Job Number: 720-841-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-3036**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 720-841-1 Analysis Batch: 720-3036
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0
Date Analyzed: 12/14/2005 0936
Date Prepared: 12/14/2005 0936

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-841-1 Analysis Batch: 720-3036
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0
Date Analyzed: 12/14/2005 0958
Date Prepared: 12/14/2005 0958

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.			RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD	Limit				
Benzene	105	99	69 - 129	7	20		
MTBE	112	108	65 - 165	3	20		
Toluene	107	106	70 - 130	0	20		
Surrogate	MS % Rec	MSD % Rec				Acceptance Limits	
Toluene-d8	104	102				77 - 121	
1,2-Dichloroethane-d4	85	83				73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: TRC Solutions

Job Number: 720-841-1

Method Blank - Batch: 720-3082

Lab Sample ID: MB 720-3082/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/15/2005 0844
Date Prepared: 12/15/2005 0844

Analysis Batch: 720-3082
Prep Batch: N/A
Units: ug/L

Method: 8260B
Preparation: 5030B

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		100
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	% Rec		Acceptance Limits
Toluene-d8	102		77 - 121
1,2-Dichloroethane-d4	84		73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: TRC Solutions

Job Number: 720-841-1

Laboratory Control/

Laboratory Control Duplicate Recovery Report - Batch: 720-3082 Preparation: 5030B

LCS Lab Sample ID: LCS 720-3082/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/15/2005 0801
Date Prepared: 12/15/2005 0801

Analysis Batch: 720-3082
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: CSD 720-3082/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/15/2005 0822
Date Prepared: 12/15/2005 0822

Analysis Batch: 720-3082
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD				
Benzene	94	97	69 - 129	3	25	
MTBE	102	96	65 - 165	6	25	
Toluene	100	101	70 - 130	1	25	
Surrogate	LCS % Rec	LCSD % Rec			Acceptance Limits	
Toluene-d8	100	104			77 - 121	
1,2-Dichloroethane-d4	83	79			73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: TRC Solutions

Job Number: 720-841-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-3082**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 720-995-A-1 MS Analysis Batch: 720-3082
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0
Date Analyzed: 12/15/2005 0947
Date Prepared: 12/15/2005 0947

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-995-A-1 MSD Analysis Batch: 720-3082
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0
Date Analyzed: 12/15/2005 1009
Date Prepared: 12/15/2005 1009

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200512\12
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	106	108	69 - 129	2	20		
MTBE	117	110	65 - 165	6	20		
Toluene	111	113	70 - 130	2	20		
Surrogate	MS % Rec	MSD % Rec				Acceptance Limits	
Toluene-d8	103	106				77 - 121	
1,2-Dichloroethane-d4	84	83				73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results

Quality Control Results

Client: TRC Solutions

Job Number: 720-841-1

Method Blank - Batch: 720-2748

Method: 8015B

Preparation: 3511

Lab Sample ID: MB 720-2748/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2005 0839
Date Prepared: 12/08/2005 1220

Analysis Batch: 720-2953
Prep Batch: 720-2748
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35.00 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	% Rec	Acceptance Limits	
o-Terphenyl	85	60 - 130	

**Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-2748** **Method: 8015B**
Preparation: 3511

LCS Lab Sample ID: LCS 720-2748/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2005 0633
Date Prepared: 12/08/2005 1220

Analysis Batch: 720-2953
Prep Batch: 720-2748
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35.00 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: CSD 720-2748/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2005 0704
Date Prepared: 12/08/2005 1220

Analysis Batch: 720-2953
Prep Batch: 720-2748
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 35.00 mL
Final Weight/Volume: 2 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec.			RPD	RPD Limit	LCS	Qual	LCSD	Qua
	LCS	LCSD	Limit						
Diesel Range Organics [C9-C24]	67	74	60 - 150	10	25				
Surrogate		LCS % Rec	LCSD % Rec			Acceptance Limits			
o-Terphenyl		96	101			60 - 130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

00062

ConocoPhillips Chain Of Custody Record

STL-San Francisco		ConocoPhillips Site Manager:		ConocoPhillips Work Order Number:																																																													
1220 Quarry Lane Pleasanton, CA 94566 (925) 484-1919 (925) 484-1096 Fax		INVOICE REMITTANCE ADDRESS: Attn: Dee Hutchinson 3611 South Harbor, Suite 200 Santa Ana, CA, 92704		Z4747TRCS01 DATE: 12-01-05																																																													
#20-841		CONOCOPHILLIPS SITE NUMBER: \$105		SAMPLE ID NO.: TOKO7005S																																																													
SAMPLE COMPANY: TRC		SAMPLE POINT NAME AND ADDRESS: 1950 Cypresselle Rd NOT AVAILABLE TO DUE TO DELAYING		SAMPLE LOCATION AND NAME: Santa Rosa Thomas Kose /																																																													
ANALYST: Arjun Farfan		TELEPHONE: 949-341-7440 FAX: 949-753-0111		EMAIL: rafarfan@trcsolutions.com																																																													
CONSULTANT NAME/PROJECT: <i>Arjun Farfan</i>		CONSULTANT PROJECT NUMBER: 41050001#A-0		REQUESTED ANALYSES:																																																													
TURNAROUND TIME (CALENDAR DAYS): <input checked="" type="checkbox"/> 14 DAYS <input type="checkbox"/> 7 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF ECO IS REQUESTED <input checked="" type="checkbox"/>		FIELD NOTES: Container/Preserved or PID Readings or Laboratory Notes																																																													
<p>* Field Point name only required if different from Sample ID</p> <table border="1"> <thead> <tr> <th>Sample Identification/Field Point Name*</th> <th>Date</th> <th>Sampling Time</th> <th>Matrix</th> <th>No. of Cont.</th> <th>Temperature On Receipts</th> </tr> </thead> <tbody> <tr> <td>MW-8</td> <td>12-1</td> <td>1206</td> <td>CW</td> <td>6</td> <td>X</td> </tr> <tr> <td>MW-9</td> <td></td> <td>1216</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>MW-6</td> <td></td> <td>1228</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>MW-3</td> <td></td> <td>1237</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>MW-7</td> <td></td> <td>1244</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>MW-11</td> <td></td> <td>1255</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>MW-1</td> <td></td> <td>1301</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>MW-10</td> <td></td> <td>1314</td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>MW-12</td> <td></td> <td>1325</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table> <p>Prepared by: <i>[Signature]</i> Received by: <i>[Signature]</i> Accepted by: <i>[Signature]</i> Rejected by: <i>[Signature]</i> Reviewed by: <i>[Signature]</i> Laboratory (signature)</p>						Sample Identification/Field Point Name*	Date	Sampling Time	Matrix	No. of Cont.	Temperature On Receipts	MW-8	12-1	1206	CW	6	X	MW-9		1216			X	MW-6		1228			X	MW-3		1237			X	MW-7		1244			X	MW-11		1255			X	MW-1		1301			X	MW-10		1314			X	MW-12		1325			X
Sample Identification/Field Point Name*	Date	Sampling Time	Matrix	No. of Cont.	Temperature On Receipts																																																												
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MW-11		1255			X																																																												
MW-1		1301			X																																																												
MW-10		1314			X																																																												
MW-12		1325			X																																																												

LOGIN SAMPLE RECEIPT CHECK LIST

Client: TRC Solutions

Job Number: 720-841-1

Login Number: 841

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MS/MS		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	

STATEMENTS

Purge Water Disposal

Non-hazardous groundwater produced during purging and sampling of monitoring wells was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures - Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter Recycling, Inc.

Limitations

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.